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| Form PTO 1449<br><br>U.S. Department of Commerce<br>Patent and Trademark Office<br><br>Information Disclosure Statement by Applicant | ATTY. DOCKET NUMBER<br>HIRA.0178 | SERIAL NUMBER<br>10/522,241 |
|  | APPLICANT<br>SUGAHARA et al      |                             |
|  | FILING DATE<br>January 25, 2005  | GROUP<br>2815               |

### U.S. Patent Documents

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## Foreign Patent Documents

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**Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)**

|   |   |
|---|---|
| Cited Documents (Including Author, Title, Date, Pertinent Pages, Etc.)  |   |
| /J.V./  | Supriyo Datta et al., "Electric Analog of the Electro-Optic Modulator", Appl. Phys. Lett, Vol. 56, No. 7, February 12, 1990, pp. 665-667  |
| /J.V./  | D. J. Monsma et al., "Perpendicular Hot Electron Spin-Valve Effect in a New Magnetic Field Sensor: The Spin-Valve Transistor", Physical Review Letters, Vol. 74, No. 26, June 26, 1995, pp. 5260-5263 |
| /J.V./  | K. Mizushima et al., "Energy-Dependent Hot Electron Transport Across a Spin-Valve", IEEE Transactions on Magnetics, Vol. 33, No. 5, September 1997, pp. 3500-3504                                     |
| /J.V./  | Sebastia van Dijken et al., "Room Temperature Operation of a High Output Current Magnetic Tunnel Transistor", Applied Physics Letters, Vol. 80, No. 18, May 6, 2002, pp. 3364-3366                    |
| EXAMINER  | <div>/Jami Valentine/</div> <div>DATE CONSIDERED</div> <div>05/25/2007</div>  |
| <p><i>EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP 609; draw a line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant</i></p> |   |

PTO1449

| Examiner Initial | DOCUMENT NUMBER | DATE   | NAME             | CLASS | SUB CLASS | FILING DATE |
|------------------|-----------------|--------|------------------|-------|-----------|-------------|
| J.V.             | 5,747,859       | 5/5/98 | Mizushima et al. |       |           | 8/19/96     |
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